



431 River Road  
Bow, NH 03304

May 15, 2020

Submitted on-line via NetDMR

U.S. Environmental Protection Agency  
Water Technical Unit (SMR-04)  
OES4 – SMR  
5 Post Office Square - Suite 100  
Boston, MA 02109-3912

Reference: NPDES Permit No. NH0001465, Merrimack Station, GSP Merrimack LLC,  
issued June 25, 1992, modified October 22, 1992, modified January 10, 2018.

Dear Sir/Madam:

Merrimack Station  
Monthly NPDES Discharge Monitoring Report  
April 2020

In compliance with Part I, Section B.1., of the NPDES permit (see Reference), Granite Shore Power LLC (GSP) herein submits the monthly NPDES report for Merrimack Station for the month of April. With the exception of Outfall 003A, all sampling and analyses were conducted by station personnel in accordance with EPA approved procedures referenced at 40 CFR Part 136. Eastern Analytical, Inc. of Concord, NH, performed the total copper, total iron, total suspended solids, and oil and grease analyses on the monthly grab samples collected at Outfall 003A. There were no oily sheens, floating solids, or foam observed in any of the outfall discharges in other than trace amounts.

There was one permit noncompliance recorded during the month. On April 24 Eastern Analytical (EAI) preliminarily reported that a grab sample collected at Outfall 003A on April 15 yielded a result for total iron of 1.3 mg/l. This concentration exceeded the permit limit of 1.0 mg/l so a noncompliance notification was submitted to EPA and DES in the form of an email dated April 24. Station personnel immediately investigated recent conditions related to operations of the wastewater treatment plant and the settling pond. Findings suggest that the event was most likely the result of stormwater runoff with elevated iron concentrations dominating flow through the settling pond since little process water was being discharged during the period. EAI confirmed the result on April 28 and a follow-up notification was provided to the agencies on April 30. This quarterly commitment will be reported via NetDMR in the Q2 DMR for Outfall 003A in the month of June.

May 15, 2020

As instructed by the agencies, GSP now reports a concentration of zero ("0") when the analytical result is less than the method detection limit (MDL). For this report, the following MDLs were used: Total Residual Oxidants = 0.05 mg/l (SM 4500-Cl E-2011); Oil & Grease = 5.0 mg/l (EPA 1664 Rev. B); Total Suspended Solids = 5.0 mg/l (SM 2540 D-97).

This report is required by, and prepared specifically for, the U.S. Environmental Protection Agency (EPA). It presents truly, accurately and completely, the observed measurements and analyses required by the EPA to be performed or submitted, but only such observed results. It is not intended as an assertion of the accuracy of any instrument, reading, or analytical result, nor is it an endorsement of the suitability of any analytical or measurement procedure.

If you have any questions regarding this report, please call Allan Palmer, Senior Engineer, at (603) 230-7951.

Sincerely,

GRANITE SHORE POWER

A handwritten signature in black ink, reading "Elizabeth H. Tillotson". The signature is written in a cursive style with a horizontal line underneath the name.

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Elizabeth H. Tillotson

Executive Director of Administration & Regulatory Affairs

Enclosures

GSP MERRIMACK LLC  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR April 2020

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
04/01/20	6.88	0515	6.85	6.78	0630	96
04/02/20	6.87	0745	6.83	6.78	2200	96
04/03/20	6.85	2145	6.83	6.79	0600	96
04/04/20	6.88	0745	6.86	6.83	0215	96
04/05/20	6.88	0515	6.85	6.79	2015	96
04/06/20	6.86	0300	6.83	6.79	1400	96
04/07/20	6.84	0615	6.81	6.77	1445	96
04/08/20	6.83	1815	6.81	6.79	2030	96
04/09/20	6.85	2015	6.81	6.77	1100	96
04/10/20	6.87	2000	6.83	6.78	1130	96
04/11/20	6.87	0100	6.84	6.81	1645	96
04/12/20	6.85	0230	6.82	6.79	1930	96
04/13/20	6.82	0330	6.78	6.73	1345	96
04/14/20	6.87	1715	6.83	6.77	0115	96
04/15/20	6.82	1300	6.79	6.73	0000	96
04/16/20	6.73	0015	6.67	6.62	1215	96
04/17/20	6.76	1845	6.70	6.65	1030	96
04/18/20	6.81	1945	6.78	6.72	0230	96
04/19/20	6.81	0015	6.78	6.75	1000	96
04/20/20	6.80	2145	6.78	6.75	1030	96
04/21/20	6.83	1545	6.79	6.73	1045	96
04/22/20	6.84	1915	6.78	6.68	0600	96
04/23/20	6.85	1645	6.80	6.63	0830	87
04/24/20	6.86	0730	6.83	6.81	1030	96
04/25/20	6.86	0345	6.83	6.80	1730	96
04/26/20	6.85	0000	6.82	6.79	1100	96
04/27/20	6.87	0000	6.84	6.82	0300	96
04/28/20	6.90	1315	6.87	6.84	0500	96
04/29/20	6.89	0115	6.87	6.85	2315	96
04/30/20	6.87	0215	6.85	6.83	0545	96
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AVERAGE	6.85		6.81	6.77		
STD DEV.:	0.04		0.04	0.06		

GSP MERRIMACK LLC  
MERRIMACK GENERATING STATION  
ENVIRONMENTAL MONITORING PROGRAM  
MONTHLY SUMMARY REPORT FOR April 2020

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
04/01/20	6.90	2300	6.86	6.81	1145	96
04/02/20	6.96	2200	6.88	6.80	1030	95
04/03/20	6.92	0015	6.80	6.75	2330	96
04/04/20	6.96	2115	6.82	6.75	0515	96
04/05/20	6.94	0030	6.86	6.77	0000	96
04/06/20	6.99	2000	6.83	6.72	1100	96
04/07/20	7.00	1730	6.93	6.80	1215	96
04/08/20	6.98	1830	6.93	6.88	0930	96
04/09/20	6.92	0015	6.84	6.74	2115	96
04/10/20	6.78	1700	6.76	6.71	0445	96
04/11/20	6.95	2300	6.81	6.72	1100	96
04/12/20	6.98	1800	6.93	6.87	0530	96
04/13/20	6.95	1730	6.91	6.84	0000	96
04/14/20	6.97	2245	6.81	6.72	0515	96
04/15/20	7.06	1800	6.94	6.77	2300	96
04/16/20	7.12	1645	6.98	6.75	0300	95
04/17/20	7.14	1730	7.06	6.97	0630	96
04/18/20	7.07	1715	6.99	6.85	2300	96
04/19/20	6.89	0115	6.86	6.82	0000	96
04/20/20	6.96	1700	6.83	6.71	0645	96
04/21/20	6.88	1600	6.83	6.76	0100	96
04/22/20	6.90	2245	6.82	6.75	0815	96
04/23/20	7.04	1800	6.91	6.80	0845	96
04/24/20	7.14	1900	7.00	6.93	0615	96
04/25/20	7.21	1615	7.04	6.90	0730	96
04/26/20	7.03	1115	6.91	6.74	0000	96
04/27/20	6.84	1800	6.79	6.71	0130	96
04/28/20	7.06	1930	6.88	6.81	0400	96
04/29/20	7.21	1745	7.05	6.96	0300	96
04/30/20	7.24	1500	7.06	6.88	0630	96
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AVERAGE	7.00		6.90	6.80		
STD DEV.:	0.11		0.09	0.08		